

## CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/575,638ACRF Processing Date: 9/5/2000  
Edited by: 1651  
Verified by: 1651 (STIC staff)

Changed a file from non-ASCII to ASCII **ENTERED**

Changed the margins in cases where the sequence text was "wrapped" down to the next line. SEP 12 2000

Edited a format error in the Current Application Data section, specifically:

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Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

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Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

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Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

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Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

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Deleted extra, invalid, headings used by an applicant, specifically:

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Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_

Inserted mandatory headings, specifically: (A) ADDRESSEE:

Corrected an obvious error in the response, specifically:

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Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

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A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:

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*1651*  
*9/5/2000*  
*TECH CENTER 1600/2900*

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RECEIVED  
SEP 12 2000  
TECH CENTER 1600/2990

RAW SEQUENCE LISTING DATE: 09/08/2000  
PATENT APPLICATION: US/09/575,638A TIME: 14:26:46

Input Set : A:\Pto.amc  
Output Set: N:\CRF3\09082000\I575638A.raw

## SEQUENCE LISTING

## 3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: LAFFEND, LISA ANNE  
6 NAGARAJAN, VASANTHA  
7 NAKAMURA, CHARLES

9 (ii) TITLE OF INVENTION: BIOCONVERSION OF A FERMENTABLE  
10 CARBON SOURCE TO 1,3-PROPANE-DIOL BY A SINGLE MICROORGANISM

12 (iii) NUMBER OF SEQUENCES: 46

22 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: E. I. DUPONT DE NEMOURS AND COMPANY  
24 (B) STREET: 4 CAMBRIDGE PLACE  
25 1870 SOUTH WINTON ROAD  
26 (C) CITY: ROCHESTER  
27 (D) STATE: NEW YORK  
28 (E) COUNTRY: U.S.A.  
29 (F) ZIP: 14618

31 (v) COMPUTER READABLE FORM:

32 (A) MEDIUM TYPE: 3.50 INCH DISKETTE  
33 (B) COMPUTER: IBM  
34 (C) OPERATING SYSTEM: MICROSOFT WINDOWS 95  
35 (D) SOFTWARE: MICROSOFT WORD 7.0A

37 (vi) CURRENT APPLICATION DATA:

C--> 38 (A) APPLICATION NUMBER: US/09/575,638A  
C--> 39 (B) FILING DATE: 22-May-2000

40 (C) CLASSIFICATION:

42 (vii) PRIOR APPLICATION DATA:  
43 (A) APPLICATION NUMBER: 08/440,293  
44 (B) FILING DATE: MAY 12, 1995

46 (viii) ATTORNEY/AGENT INFORMATION:  
47 (A) NAME: LINDA AXAMETHY FLOYD  
48 (B) REGISTRATION NUMBER: 33,692  
49 (C) REFERENCE/DOCKET NUMBER: CR9715 US DIV1

51 (ix) TELECOMMUNICATION INFORMATION:

52 (A) TELEPHONE: 302-892-8112  
53 (B) TELEFAX: 302-773-0164

56 (2) INFORMATION FOR SEQ ID NO: 1:

58 (i) SEQUENCE CHARACTERISTICS:

59 (A) LENGTH: 12145 base pairs  
60 (B) TYPE: nucleic acid  
61 (C) STRANDEDNESS: single  
62 (D) TOPOLOGY: linear

64 (ii) MOLECULE TYPE: DNA (genomic)

C--> 66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

68 GTCGACCACC ACGGTGGTGA CTTTAATGCC GCTCTCATGC AGCAGCTCGG TGGCGGTCTC	60
70 AAAATTCAAGG ATGTCGCCGG TATAGTTTT GATAATCAGC AAGACGCCCT CGCCGCCGTC	120
72 AATTTCATC GCGCATTCAA ACATTTGTC CGGCCTCGGC GAGGTGAATA TTTCCCCCGG	180
74 ACAGGCGCCG GAGAGCATGC CCTGGCCGAT ATAGCCGAG TGCATCGGTT CATGTCCGCT	240

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Input Set : A:\Pto.amc  
Output Set: N:\Crf3\09082000\I575638A.raw

76	GCCGCCGCCG	GAGAGCAGGG	CCACCTGCC	AGCCACCGGC	GCGTCGGTGC	GGGTACACATA	300
78	CAGCGGGTCC	TGATGCAGGG	TCAGCTCGG	ATGGGCTTTA	GCCAGCCCT	GTAATTGTC	360
80	ATTCACTACAC	TCTTCAACAC	GTTAATCAG	CTTTTTCATC	ATTCACTGCT	CCGTTGGAGA	420
82	AGGTTGGATG	CCGCCCTCTCT	GCTGGCGG	CGGTCATCG	CCTAGGGGTA	TCGTCGACG	480
84	GTGGAGGGT	CCTGCCGATA	TGATGATTCT	GCGTGAGCGG	ACGAAAAAA	GAATGCCCG	540
86	ACGATCGGGT	TTCATTAACGA	AAACATTGCTT	CCTGATTTTG	TTTCTTTATG	GAACGTTTT	600
88	GCTGAGGATA	TGGTGGAAAAT	GCGAGCTGGC	GCGCTTTTTT	TCTCTGCCA	TAAGCGGGG	660
90	TCAGGATAGC	CGGGCAAGGC	GGTGGGGAAA	AATTTTTTCG	TGATTTCTCG	CCGACTGCGG	720
92	GAGAAAAGGC	GTCACACAC	GGAGGATTGT	AAGGGCATT	TGCGGAAAG	GAGCGGATCG	780
94	GGATGCCAT	CCTGACAGAC	ACTAGGGTTT	TTTGTTCAA	TATGGAACGT	AAAAAATTA	840
96	CCTGTGTTTC	ATATCAGAAC	AAAAAGCGA	AAAGATTTTTT	TGTTCCCTGC	CGGCCCTACA	900
98	GTGATCCAC	TGTCGGTCA	CGTCGGTTC	AGGCCGGCT	TCACTGGC	CGCGGGATAA	960
100	CGCCAGGGCT	CATCATGTC	ACATGCGCAC	TTATTTGAGG	GTGAAAGGAA	TGCTAAAAGT	1020
102	TATTCAATCT	CCAGCAAAAT	ATCTTCAGGG	TCTCTGATCT	GCTGTTCTGT	TCGGTCAATA	1080
104	TGCCAAAAAC	CTGGCGGAGA	GCTCTTCG	CATCGCTGAC	GATTTCGTAA	TGAAGCTGGC	1140
106	GGGAGAGAAA	GTGGTGAATG	GCTGCGAGAG	CCACGATATT	CGCTGCCATG	CGGAACGTT	1200
108	TAACCGCGA	TGCGCCATG	CGGAAATCAA	CCGTCTGATG	GCGATTTTCG	AAAAACAGGG	1260
110	CTGCGCGGC	GTGGTGGGA	TGGCGGTGG	AAAACCCCTC	GATACCGCGA	AGGCATCGG	1320
112	TTACTACCA	AAGCTGCCG	TGGTGGTGT	CCCGACCATC	GCTCGACCC	ATGCCAAC	1380
114	CAGCGCGCTG	TCGGTGATCT	ACACCGAAC	GGCGGAGTT	GAAGACTATC	TGATCTATCC	1440
116	GAAAACCCG	GATATGGTG	TGATGGACAC	GGCGATTATC	GCCAAAGGCC	CGGTACGCC	1500
118	GCTGGTCTC	GGCATGGGCG	ATCGCGCTC	CACCTGGTTC	GAGGCCAAAG	CTTGCTACGA	1560
120	TGCGCGGCC	ACCAGCATGG	CCGGAGGACA	CTCCACCGAG	CGCCGCGTGA	GCCTCCCG	1620
122	CCTGTGCTAT	GATACGCTGC	TGGCGGAGGG	CGAAAAGGCC	CGTCTGGCGG	CGCAGGCC	1680
124	GGTACTGACC	GAAGCGCTG	AGCCATCAT	CGAGGCGAAC	ACTTACCTCA	CGGCATTG	1740
126	CTTITGAAAGC	AGTGGCTCG	CCGTGCCCCA	TGCAATCCAC	AACGGTTTCA	CCATTCTTGA	1800
128	AGAGTGCAT	CACCTGTATC	ACGGTGAGAA	AGTGGCTTC	GGTACCTCTG	CGCACCTGGT	1860
130	GCTGCAGAAC	AGCCCGATGG	ACGAGATTGA	AACGGTGCAG	GGCTTCTGCC	AGCGCTCGG	1920
132	CCTGCCGTG	ACGCTCGCGC	AGATGGCGT	CAAAGAGGG	ATCGACGAGA	AAATGCCGC	1980
134	GGTGGGAAAG	GCTACCTCGG	CGGAAGGGGAA	AACCATCCAT	AATATGCCGT	TTGCGGTGAC	2040
136	CCCGGAGAGC	GTCCATGCCG	CTATCCCTAC	CGCCGATCTG	TTAGGCCAGC	AGTGGCTGGC	2100
138	GCGTTAATT	CGGGTGGCTA	AAACCGCTGGC	CCAGGTCA	GTTTTCTT	TCTCCCTCC	2160
140	GGCAGTCGCT	GGCGGAGGGG	TTCTCTATGG	TACAACCGGG	AAAAGGATAT	GACTGTCAG	2220
142	ACTCAGGATA	CGGGGAAGGC	GGTCTCTTCC	GTCATTGCCC	AGTCATGGCA	CCGCTGCGAC	2280
144	AAGTTTATGC	AGCGCGAAC	CTCGCAAAACG	CCGCACCCAGG	CCCAGGGCCT	GACCTTCGAC	2340
146	TCCATCTGTC	GGCGTAAAC	CGCGCTGCTC	ACCACCGCC	AGGCCGCGCT	GGAAGACGCC	2400
148	TGGGAGTTA	TGGACGGCCG	CCCCCTGCCG	CTGTTTATTC	TTGATGAGTC	CGCCTGCATC	2460
150	CTGACCGCTT	GGGGCGAGCG	GCAAAACCTG	GCCCCAGCTGG	CTGCCCTGGG	ATTTGCGGAC	2520
152	GGCAGCTATT	GTGGGGAGAG	CATTATGCCG	ACCTGCGCG	TGTCGCTGGC	CGCGATGCG	2580
154	GGCCAGCCGA	TCAACACCGC	CGGCGATCGG	CATTTTAACG	AGGGCCTACA	GCCATGGAGT	2640
156	TTTTGCTCGA	CGCCGGTCTT	TGATAACCAC	GGGGCGCTGT	TCGGCTCAT	CTCGCTTGC	2700
158	TCTCTGGTCG	AGCACCCAGTC	CAGCGCCGAC	CTCTCCCTGA	CGCTGGCCAT	CGCCCGCGAG	2760
160	GTGGCTTA	CCCTGCTTAC	CGACAGCCTG	CTGGCGGAAT	CCAACCGTCA	CCTCAATCAG	2820
162	ATGTACGGCC	TGCTGGAGAG	CATGGACGAT	GGGGTGATGG	CGTGGAAACGA	ACAGGGCGTG	2880
164	CTGAGTTTC	TCAATGTTCA	GGCGCGAGAG	CTGCTGCATC	TTGATGCTCA	GGCCAGCAG	2940
166	GGGAAAATA	TCGCGGATCT	GGTACCCCTC	CCGGCGCTGC	TGCGCCGCG	CATCAAACAC	3000
168	GCCCGGGGCC	TGAATCACGT	CGAAGTCACC	TTTGAAAGTC	AGCATCACTT	TGTCGATGCG	3060
170	GTGATCACCT	AAAAACCGAT	TGTCGAGGCG	CAAGGCAACA	GTTTTATTCT	GCTGCTGCAT	3120
172	CCGGTGGAGC	AGATGCGCGA	GCTGATGACC	AGCCAGCTCG	GTAAAGTCAG	CCACACCTTT	3180

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174	GAGCAGATGT	CTGCCGACGA	TCCGGAAACC	CGACGCCTGA	TCCACTTTGG	CCGCCAGGCG	3240
176	GCGCGCGCG	GCTTCCCGGT	GCTACTGTGC	GGCGAAGAGG	GGGTGGGAA	AGAGCTGCTG	3300
178	AGCCAGGCTA	TTCACAAATGA	AAAGCGAACCG	GGGGCGCGCC	CCTACATCTC	CGTCAACTGC	3360
180	CAGCTATATG	CCGACAGCGT	GCTGGGCGAC	GACTTTATGG	GCAGCGCCCC	TACCGACGAT	3420
182	GAAAATGGTC	GCCTGAGCGC	CCTTGAGCTG	CCCAACGGCG	CAACCCGTG	TCTGAAAAG	3480
184	ATCGAGTATC	TGGCGCCCGA	GCTCAGTCG	GCTCTGCTGC	AGGTGATTAA	GCAGGGCGTG	3540
186	CTCACCCGCC	TCGACGCCCG	GGCCCTGATC	CCGGTGGATG	TGAAGGTGAT	TGCCACCACC	3600
188	ACCGTGCATC	TGGCAAAATCT	GGTGAACAG	AACCGTTTA	GGCGCCACGT	GTACTATGCG	3660
190	CTGCACTCT	TTGAGATCGT	CATCCCGCCG	CTGCGCGCC	GACGCAACAG	TATTCCGTG	3720
192	CTGGTGCATA	ACCGGTTGAA	GAGCCTGGAG	AAGCGTTCT	CTTCGCGACT	GAAAGTGGAC	3780
194	GATGACGCGC	TGGCACAGCT	GGTGGCCTAC	TCGTGGCCGG	CCAATGATT	TGAGCTAAC	3840
196	AGCGTATTG	AGAATATCGC	CATCAGCAGC	GACAACCGCC	ACATTGCGCT	GAGTAATCTG	3900
198	CCGGAATATC	TCTTTCGGA	GGGGCGGGC	GGGGATAGCG	CGTCATCGCT	GCTGCCGGCC	3960
200	AGCCTGACTT	TTCAGCCCAT	CGAAAGAGGA	GCTATTATTC	ACGCCGCCG	GGTGACCAAGC	4020
202	GGCGGGTGC	AGGAGATGTC	GCAGCTGCTC	ATATCGGCC	GCACCAACCT	TGCGCGCAA	4080
204	ATGAAGCAGT	ACGATATTGA	CGCCAGGCCAG	TTCAAGCGA	ACCATCAGGC	CTACTCTCTT	4140
206	CGATTCCGCG	CATGGAGAAC	AGGCATCCG	ACAGGGCATT	GCTGTAGCGT	TTGAGCGCGT	4200
208	CGCGCAGCGG	ATGGCGCGG	TCCATGGCCG	TCAGCAGCG	TTCGAGCGGA	CGGGACTGGG	4260
210	TGCGCCCCAC	GTGCAGCTG	GCAGAGCGA	GATTCTCCC	CGGGATCACG	AACTGTTTA	4320
212	ACGGCCGCT	CTCGGCCATA	TTGCGGTGCA	TAAGCGCTC	CAGGGCGGT	ATCTCCTCTT	4380
214	CGCCGATCGT	CTGGCTCAGG	CGGGTCAGGC	CCCGCGCATC	GCTGGCCAGT	TCAGCCCCCA	4440
216	GCACGAACAG	CGTCTGCTGA	ATATGGTGA	GGCTTTCCCG	CAGCCCCGGC	TCGGGGTTCG	4500
218	TGGCGTAPCA	GACGCCAACCG	TGGGATATCA	GTTCATCGAC	GGTGGCGTAG	GCCTCGACGC	4560
220	GAATATGGTC	TTTCTCGATG	CGGCTGCCG	CGTACAGGGC	GGTGGTGCCT	TTATCCCCG	4620
222	TGCGGTATA	GATACTGATAC	ATTCACTTTG	TCTCACTTAA	CGGCAGGACT	TTAACCAAGCT	4680
224	GCCCCGGCTT	GGCGCCGAGC	GTACCGAGCT	GATCGTCGCT	ATCGGTGACCT	TGTCGGTAG	4740
226	CCAGGGCGC	GTCCGGCCCG	AGCTGGGCAT	GAGTGAGGGC	TATCTCGCCG	GACCGCGCTGA	4800
228	GCCCCATACC	CACCCCGAGG	GGCAGCTTC	GGGCCGCCAG	GGCGCCACG	GCAGCGCGT	4860
230	CACCGCCTCC	GTCATAGTTT	ATGGTCTGGC	AGGGGACCCC	CTGCTCCCTC	AGCCCCAACG	4920
232	ACACCTCATT	GATGGCCCG	GCATGGTGC	GGCGCCGATC	CTAAACACAGG	CGTACGCCG	4980
234	GCGTGAACAG	CGACATGACG	GTACCCCTCGT	TAACACTCAG	ATTCCTCGC	GGAAAATCGC	5040
236	GGCAATCTCC	TGCTCGTTC	CTTACGCGG	GTTCGAGAAC	CCATTGCGCT	CTTTTAGAGC	5100
238	CATCTCCGCC	ATGTAGGGGA	AGTCGGCCTC	TTTACCCCC	AGATCGCGA	GATGCTGCC	5160
240	AATAACCGATA	TCCATCGACA	GACCGCTGAT	AGCGGGCATG	GCTTTTTCCG	CCGGCTCGAG	5220
242	AGTGGACAGT	CCGGTGATAT	TTTCGCCCCAT	CAAGTCAGCG	ATATCGCGA	ATTTCCTCCG	5280
244	GTTGCCGATC	AGGTTGAGC	GGCCACCATG	CGGCGACAGG	ACAGCGTTGG	CCACGCCGTG	5340
246	CGGCATGTCG	TACAGGCCG	CCAGCTGGT	CGCCATGGCG	TGCACGTAGC	CGAGGTTGGC	5400
248	GTTATTGAAA	GCCATCCCGG	CCAGCAGAGA	AGCATAAGGCC	ATGTTTTCCG	CCGGCTGCAG	5460
250	ATTGCTGCC	AGGGGCCACGG	CCTGGCGAG	GTTGGGGCG	ATGAGGCGGA	TCGGCTGCAT	5520
252	GGCGGGCGC	TCCGTACCGG	GTTAGCGTC	TTTGGAGATA	TAGGCCCTTA	CGGGGTGGGT	5580
254	CAGGCCATCC	ATCCCGTGC	CCCGGGTAG	GGCGCCCGGT	TTACCGATCA	TCAGCAGTGG	5640
256	ATCGTTGATA	GAGACCGACG	GCAGTTTGCG	CCAGCTGACG	ATCACAAACT	TCACTTGGT	5700
258	TTCGGTGTG	GTCAGGACGC	AGTGGCGGGT	GACCTCGCTG	GGGGTGCCGG	CGGTGGTATT	5760
260	GACCGCGACG	ATAGGGCGCA	GGGGTTGGT	CAGGGTCTCG	ATTCCGGCAT	ACTGGTACAG	5820
262	ATCCGCTCA	TGGGTGCGG	CGATGCCGAT	GCCCTTGCGC	CAATCGTGC	GGCTGCCGCC	5880
264	GCCCACGGTG	ACGATGATGT	CGCACTGTC	GGGGCGAAC	ACGGCGAGGC	CGTCCGCGAC	5940
266	GTTGGTGTCT	TCGGGTTCG	GCTCGACGCC	GTCAAAGATC	GCCACCTCGA	TCCCGGCCTC	6000
268	CCGCAGATAA	TGCAGGGTTT	TGTCACCCGC	GCCATCTTTA	ATTGCCCGCA	GGCCTTTGTC	6060
270	GGTGACCGAC	AGGGCTTTT	CCCCCCCCAG	CAGCTGGCGAG	CGTTCGCCGA	CTACGGAAAT	6120

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 PATENT APPLICATION: US/09/575,638A TIME: 14:26:46

Input Set : A:\Pto.amc  
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272	GGCGTTGGGG	CCAAAAAAAGT	TAACGTTTGG	CACCAAGATAA	TCAAACATAC	GATAGCTCAT	6180
274	AATATACTT	CTCGCTTCAG	GTATAATGC	GGAAAAACAA	TCCAGGGCGC	ACTGGGCTAA	6240
276	TAATTGATCC	TGCTCGACCG	TACCGCCGCT	AACGCCGACG	GCCCCAATTA	CCTGCTCATT	6300
278	AAAATAACTA	GGCAGGCGC	CGCCAAAAT	AATAATTGCG	TGTTGGTTGG	TTAGCTGCAG	6360
280	ACCGTACAGA	GATTGTCCTG	GCTGGACCGC	TGACGTTAATT	TCACTGGTAC	CTTGCTTCAG	6420
282	GCTGCAGCGC	CTCCAGGCTT	TATTCAAGGG	AATAATCCAG	CTGGAGACGA	AGGCCCTGTC	6480
284	CATCCGCTGG	ATAAGCAGCG	TGTTGCTCC	GCGGTCAACT	ACGGAAAACA	CCACCGCCAC	6540
286	GTTGATCTCA	GTGCGTTTTT	TTCACCGCC	CGCCGCCATT	TGCTGGCGG	CGGCAGGGT	6600
288	GATTGTCCTGA	ACTTGTGGC	TCTTGTCTAT	CATTCTCTCC	CGCACCAAGGA	TAACGCTGGC	6660
290	CGGAATAGTC	AGTAGGGGGC	GATACTAAAA	AACTATTAC	ATTGGGTTGG	CTTGCTTTAT	6720
292	TTTTGTCAGC	GTTATTTTGT	CGCCGCCAT	GATTAGTCA	ATAGGGTTAA	AATAGCGTCG	6780
294	AAAAAACCTA	ATTAAGGGG	TTTTTTTATA	ATGATTTTAT	ATCATTGCGG	GCGATCACAT	6840
296	TTTTTATTTT	TGCGCCGGA	TTAAAGGTTTC	ATAGTGAAAC	TGTCGGTAGA	TTTCGTGTGC	6900
298	CAAATTGAAA	CGAAATTTAA	TTTATTTTT	TCACCACTGG	CTCATTTAA	GTTCCGCTAT	6960
300	TGCCGTAAT	GGCCGGCGG	CAACGACGCT	GGCCCGCGT	ATTGCTACC	GTCTCGGGAT	7020
302	TTCACCTTT	GAGCGATGA	ACAATGAAA	GATCAAACG	ATTGCGAGTA	CTGGCCAGC	7080
304	GCCCCGCTAA	TCAGGACGGG	CTGATTGGCG	AGTGGCTGA	AGAGGGCTG	ATCGCCATGG	7140
306	ACAGCCCCCT	TGACCCGGT	TCTTCAGTAA	AAGTGGACAA	CGGTCTGATC	GTGGAACCTGG	7200
308	ACGGCAAAACG	CCGGGACCAAG	TTTGACATGA	TGGACCGATT	TATGCCGAT	TACGCCATCA	7260
310	ACGTTGAGCG	CACAGAGCAG	GCAATGCGC	TGGAGGCGGT	GGAAATAGCC	CGTATGCTGG	7320
312	TGGATATTCA	CGTCAGCGG	GAGGAGATCA	TGCCCCATC	TACCGCCATC	ACGCCGGCCA	7380
314	AAGCGGTGCA	GGTGATGGCG	CAGATGAACG	TGGTGGAGAT	GATGATGGCG	CTGCAGAAAGA	7440
316	TGCGTGGCG	CCGGCACCCCC	TCCCAACCGAT	GCCACGTCAC	CAATCTCAA	GATAATCCGG	7500
318	TGCAGATTGC	CGCTGACGCC	GCCGAGGCGC	GGATCCGCGG	CTTCTCAGAA	CAGGAGACCA	7560
320	CGGTGGTAT	CGCCGCTAC	GGCCGTTTA	ACGCCCTGCG	GCTGTTGGTC	GGTTCCGAGT	7620
322	GGCGCCGCC	CGGGCTGTG	ACCGAGTGC	CGGTGGAAGA	GGCCACCGAG	CTGGAGCTGG	7680
324	GCATGCGTGG	CTTAACCAGC	TACGCCGAGA	CGGTGTCGGT	CTACGGCAC	GAAGCGGTAT	7740
326	TTACCGGACGG	CGATGATACG	CCGTGTCAA	AGCGCTTCT	CGCCTCGGG	TACGCTCC	7800
328	GCGGGTTGAA	AATGCGCTAC	ACCTCCGGCA	CCGGATCCGA	AGCGCTGATG	GGCTATTCCG	7860
330	AGAGCAAGTC	GATGCTCTAC	CTCGAATGCG	GCTGCACTTT	CATTACTAA	GGGCCCGGGG	7920
332	TTCAGGGACT	GCAGAACCGG	CCGGTGAGCT	GTATCGGCAT	GACCCGGCT	GTGCCCTCGG	7980
334	CGATTCGGG	GGTGTCTGGG	GAAAACCTGA	TGGCCTCTAT	GCTCGACCTC	GAAGTGCCTG	8040
336	CGGCCAACGA	CCAGACTTT	TCCCACTCGG	ATATTGCGG	CACCGCGCC	ACCCGTATGC	8100
338	AGATGCTGCC	GGGCACCGAC	TTTATTCT	CCGGCTACAG	CGCGGTGCC	AACTACGACA	8160
340	ACATGTTCGC	CGGCTGCAAC	TGCGATGCGG	AAGATTTGA	TGATTACAA	ATCCTGCAAC	8220
342	GTGACCTCAT	GGTTGACGGC	GGCCCTGCGTC	CGGTGACCGA	GGCGAACAC	ATTGCCATT	8280
344	GCCAGAAAGC	GGCGCGGGCG	ATTCAGGC	TTTCCCGGA	GCTGGGGCTG	CCGCCAATCG	8340
346	CCGACGAGGA	GGTGAGGCG	GCCACCTACG	CCGACGCCAG	CAACGAGATG	CCGCCCGTA	8400
348	ACGTGGTGA	GGATCTGAGT	GGCGTGGAAAG	AGATGATGAA	GCGCAACATC	ACCGGCCCTCG	8460
350	ATATTGTCGG	CGCGCTGAGC	CGCACGGCT	TGAGGATAT	CGCCAGCAAT	ATTCTCAATA	8520
352	TGCTGGCCA	GGGGTCAAC	GGCGATTACC	TGCAGACCTC	GGCCATTCTC	GATCGGAGT	8580
354	TCGAGGTGGT	GAGTGCCTG	AACGACATCA	ATGACTATCA	GGGGCCGGGC	ACCGGCTATC	8640
356	GCATCTCTGC	CGAACGCTGG	GGCGAGATCA	AAAATATTCC	GGCGGTGGTT	CAGCCCGACA	8700
358	CCATTGAATA	AGGCGGTATT	CCTGTGCAAC	AGACAACCCA	AATTCA	CGCCGCCCC	8760
360	TGAAAACCCG	CGAGGGCGGG	GTAGCTTCTG	CCGATGACG	CGCCGATGAA	GTGGTGATCG	8820
362	CGCTGGCCC	TGCCCTCGAT	AAACACCAGC	ATCACACTCT	GATCGATATG	CCCCATGGCG	8880
364	CGATCCTCAA	AGAGCTGATT	GCCGGGGTGG	AAGAAGAGGG	GCTTCACGCC	CGGGTGGTGC	8940
366	GCATTCTGCG	CACGTCCGAC	GTCTCCTTTA	TGGCCTGGGA	TGCGGCCAAC	CTGAGCGGCT	9000
368	CGGGGATCGG	CATCGGTATC	CAAGTCGAAGG	GGACCACGGT	CATCCCATCAG	CGCGATCTGC	9060

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370	TGCCGCTCAG	CAACCTGGAG	CTGTTCTCCC	AGGCGCCGCT	GCTGACGCTG	GAGACCTACC	9120
372	GGCAGATTGG	CAAAAACGCT	GGCGCCTATG	CGCGCAAAGA	GTCACCTTCG	CCGGTGCAGG	9180
374	TGGTGAACGA	TCAGATGGTG	CGGCCGAAAT	TTATGCCAA	AGCCGCGCTA	TTTCATATCA	9240
376	AAGAGACCAA	ACATGGTG	CGGACGAC	AGCCCGTCAC	CCTGCACATC	GACTTAGTAA	9300
378	GGGACTGACC	ATGAGCGAGA	AAACCATGCG	CGTGCAGGAT	TATCCGTTAG	CCACCCGCTG	9360
380	CCCGGAGCAT	ATCCTGAGCC	CTACCGGCAA	ACCATTGACC	GATATTACCC	TCGAGAAGGT	9420
382	GCTCTCTGGC	GAGGTGGGCC	CGCAGGATGT	CGGGATCTCC	CGCCAGACCC	TTGAGTACCA	9480
384	GGCGCAGATT	GGCGAGCAGA	TGCAAGCGCC	TGCGGCTGCG	CGCAATTTC	GGCCCGCGGC	9540
386	GGAGCTTATC	GGCATCCCTG	ACGAGCGCAT	TCTGGTATC	TATAACGCGC	TGCGCCCGTT	9600
388	CCGCTCTCG	CAGGCGGAGC	TGCTGCGAT	CGCCGAGGAG	CTGGAGCACCA	CCTGCGATGC	9660
390	GACAGTGAAT	GGCCGCTTTG	TCGGGAGTC	GGCGGAAGTG	TATCAGCAGC	GGCATAAGCT	9720
392	CGCGTAAAGGA	AGCTAAGCGG	AGGTCAAGCAT	GCCGTTAATA	GCGGGGATG	ATATCGGCAA	9780
394	CGCCATCCACC	GAGGGTGGCG	TGGCGTCCGA	CTACCCGCG	CGGAGGGCG	TTGTTGCGCAG	9840
396	CGGGATCGTC	GGGACGAGC	GCATGAAAGG	GACGCGGGAC	AATATCGCCG	GGACCCCTCGC	9900
398	CGCGCTGGAG	CAGGCCCTGG	CGAAAACACC	GTGGTCGATG	AGCGATGCT	CTCGCATCTA	9960
400	TCTTAACGAA	GGCGCGCCG	TGATTGGCGA	TGTGGCGATG	GAGACCATCA	CCGAGACCAT	10020
402	TATCACCGAA	TCGACCATGA	TCCGTCATAA	CCCGCAGACG	CGGGGCGGG	TGGGGCTTGG	10080
404	CGTGGGGACG	ACTATCGCCC	TCGGGCGCT	GGCGACGCTG	CGGGCGCGC	AGTATGCGGA	10140
406	GGGGTGGATC	GTACTGATTG	ACGACGCGT	CGATTTCTT	GACGCGTGT	GGTGGCTCAA	10200
408	TGAGGGCGTC	GACCGGGGGA	TCAACGTGGT	GGCGGCGATC	CTAAAAAAGG	ACGACGGCGT	10260
410	GCTGGTGAAC	AACCGCCCTG	GTAAAAACCC	GGCGGTGTTG	GATGAAGTGA	CGCTGCTTGA	10320
412	GCAGGTCCCC	GAGGGGGTAA	TGGCGGCGGT	GGAAGTGGGC	GGGCGGGGG	AGGTGGTGC	10380
414	GATCCTGTCG	AATCCCTACG	GGATCGCCAC	CTTCTTCGGG	CTAAGCCCCG	AAGAGACCCA	10440
416	GGCCATCGTC	CCCATCGCCC	GGCCCGTGT	TGGCAACCGT	TCCGCGTGG	TGCTCAAGAC	10500
418	CCCGCAGGGG	GATGTGCACT	CGCGGGTGT	CCCGCGGGGC	AACCTCTACA	TTAGGGCGA	10560
420	AAAGCCCGC	GGAGAGGCCG	ATCGCGCGA	GGGCGCGGAA	GCCATCATGC	AGGGATGAG	10620
422	CGCCTGCGCT	CGCGTACCGC	ACCCACCGG	CGAACCGGGC	ACCCACGCG	GGGCCATGCT	10680
424	TGAGGGGTG	CGCAAGGTA	TGGCGTCCC	GACCGGGCAT	GAGATGAGCG	CGATATACAT	10740
426	CCAGGATCTG	CTGGCGGTGG	ATACGTTAT	TCCGCGCAAG	GTGCAAGGG	GGATGGCCGG	10800
428	CGAGTCGCC	ATGGAGAATG	CCCTGGGGAT	GGCGGGCATG	GTGAAAGCGG	ATCGTCTGCA	10860
430	AATCGAGGT	ATCGCCCGC	AACTGAGGCG	CCGACTCGAG	ACCGAGGTGG	TGGTGGCGG	10920
432	CGTGGAGGCC	AACATGGCCA	TCGGCGGGGC	GTTAACCACT	CCGGCGCTG	CGGGCCCGCT	10980
434	GGCGATCTC	GACCTCGCG	CCGGCTCGAC	GGATGCGGGC	ATCGTCAACG	CGGAGGGCA	11040
436	GATAACGGCG	GTCCATCTCG	CCGGGGCGGG	GAATATGTC	AGCCTGTTGA	TTAAAACCGA	11100
438	GCTGGGCCTC	GAGGATCTT	CGCTGGCGGA	AGCGATAAAA	AAATACCCG	TGGCCAAGT	11160
440	GGAAAGCTG	TTCAGTATTG	GTCACTGAGAA	TGGCGCGTGT	GAGTTCTTTC	GGGAAGCCCT	11220
442	CAGCCCGCG	GTGTCGCCA	AACTGGGTGA	CATCAAGGAG	GGCGAACTGG	TGCGCATCGA	11280
444	TAACGCCAGC	CCGCTGGAAA	AAATTCGTC	CGTGCGCCG	CAGGCGAAG	AGAAAGTGT	11340
446	TGTCTACCA	TGCTCGCG	CGCTGCGCA	CGTCTCACCC	GGCGGTTCCA	TTCGCGATAT	11400
448	CGCCTTTGTG	GTGCTGGTGG	GCGGCTCATC	GCTGGACTTT	GAGATCCCG	AGCTTATCAC	11460
450	GGAGCCCTG	TGCACTATG	GCCTGGTCG	CGGGCGAGGC	AATATCCGG	GAACAGAAGG	11520
452	GGCGCGCAAT	GGGTCGCCA	CCGGGCTGCT	ACTGGCGGT	CAGGCGAATT	AAACGGCGC	11580
454	TCGCGCCAGC	CTCTCTCTT	AACTGTCAT	TTCAGGATGC	CGATAATGAA	CCAGACTCT	11640
456	ACCTTAACCG	GGCAAGTGC	GGCCGAGTTT	CTTGGCACCG	GATTGCTCAT	TTTCTTCGGC	11700
458	GGGGCTGCG	TGCGCTGCC	GGGGCTGCG	GGGGCCAGCT	TTGGTCAGTG	GGAGATCAGT	11760
460	ATTATCTGGG	GCCTGGCGT	CCCATGGCC	ATCTACCTGA	CGGCCGGTGT	CTCCGGCGC	11820
462	CACCTAAATC	GGGCGGTGAC	CATTGCCCTG	TGGCTGTTCG	CCTGTTTGA	ACGCCGCAAG	11880
464	GTGCTGCCGT	TTATGTTGC	CCAGACGGCC	GGGGCTTCT	GGGCCGCGC	GCTGGTGAT	11940
466	GGGCTCTATC	GGCACTGTT	TCTCGATCTT	GAACAGAGTC	AGCATATCGT	GGCGCGCACT	12000

VERIFICATION SUMMARY  
 PATENT APPLICATION: US/09/575,638A

DATE: 09/08/2000  
 TIME: 14:26:47

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\09082000\I575638A.raw

L:38 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
 L:39 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
 L:66 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:484 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:498 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:512 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:526 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:540 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:554 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:568 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:582 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:612 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:626 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:640 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:654 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:668 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:688 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:706 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:720 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:734 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:748 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:762 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:776 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:790 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:804 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:818 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:832 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:846 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:860 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:874 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:888 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:902 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:916 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:930 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:944 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:958 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:986 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1000 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1006 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]  
 L:1014 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1028 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1042 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1056 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1070 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1084 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1098 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
 L:1112 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]

1651

RAW SEQUENCE LISTING DATE: 09/05/2000  
 PATENT APPLICATION: US/09/575,638A TIME: 12:17:04

Input Set : A:\CRR9715 US DIV1 corrected seq listing.txt  
 Output Set: N:\CRF3\09052000\I575638A.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
 5 (i) APPLICANT: LAFFEND, LISA ANNE  
 6 NAGARAJAN, VASANTHA  
 7 NAKAMURA, CHARLES  
 9 (ii) TITLE OF INVENTION: BIOCONVERSION OF A FERMENTABLE  
 10 CARBON SOURCE TO 1,3-PROPANE-  
 11 DIOL BY A SINGLE MICROORGANISM  
 13 (iii) NUMBER OF SEQUENCES: 46  
 23 (iv) CORRESPONDENCE ADDRESS:  
 25 (B) STREET: 4 CAMBRIDGE PLACE  
 26 1870 SOUTH WINTON ROAD  
 27 (C) CITY: ROCHESTER  
 28 (D) STATE: NEW YORK  
 29 (E) COUNTRY: U.S.A.  
 30 (F) ZIP: 14618  
 32 (v) COMPUTER READABLE FORM:  
 33 (A) MEDIUM TYPE: 3.50 INCH DISKETTE  
 34 (B) COMPUTER: IBM  
 35 (C) OPERATING SYSTEM: MICROSOFT WINDOWS 95  
 36 (D) SOFTWARE: MICROSOFT WORD 7.0A  
 38 (vi) CURRENT APPLICATION DATA:  
 C--> 39 (A) APPLICATION NUMBER: US/09/575,638A  
 C--> 40 (B) FILING DATE: 22-May-2000  
 41 (C) CLASSIFICATION:  
 43 (vii) PRIOR APPLICATION DATA:  
 44 (A) APPLICATION NUMBER: 08/440,293  
 45 (B) FILING DATE: MAY 12, 1995  
 47 (viii) ATTORNEY/AGENT INFORMATION:  
 48 (A) NAME: LINDA AXAMETHY FLOYD  
 49 (B) REGISTRATION NUMBER: 33,692  
 50 (C) REFERENCE/DOCKET NUMBER: CR9715 US DIV1  
 52 (ix) TELECOMMUNICATION INFORMATION:  
 53 (A) TELEPHONE: 302-892-8112  
 54 (B) TELEFAX: 302-773-0164

Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

VERIFICATION SUMMARY DATE: 09/05/2000  
PATENT APPLICATION: US/09/575,638A TIME: 12:17:05

Input Set : A:\CRF9715 US DIV1 corrected seq listing.txt  
Output Set: N:\CRF3\09052000\I575638A.raw

L:39 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:40 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:0 M:200 E: Mandatory Header Field missing, [(A) ADDRESSEE:]  
L:67 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:485 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:499 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:513 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:527 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:541 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:555 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:569 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:583 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:613 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:627 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:641 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:655 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:669 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:689 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:707 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:721 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:735 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:749 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:763 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:777 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:791 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:805 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:819 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:833 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:847 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:861 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:875 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:889 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:903 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:917 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:931 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:959 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:987 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1001 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1007 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]  
L:1015 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1029 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1043 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1057 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1071 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1085 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1099 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1108 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:]

VERIFICATION SUMMARY DATE: 09/05/2000  
PATENT APPLICATION: US/09/575,638A TIME: 12:17:05

Input Set : A:\CRR9715 US DIV1 corrected seq listing.txt  
Output Set: N:\CRF3\09052000\I575638A.raw

L:1108 M:220 C: Keyword misspelled or invalid format, Poss data loss, Seq 46, (C) STRANDEDNESS:  
L:1113 M:220 C: Keyword misspelled or invalid format, [(xi)] SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1118 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:46